

CLIPPEDIMAGE= JP02000324604A
PAT-NO: JP02000324604A
DOCUMENT-IDENTIFIER: JP 2000324604 A
TITLE: CHARGING DEVICE FOR ELECTRIC MOTOR VEHICLE

PUBN-DATE: November 24, 2000

INVENTOR-INFORMATION:

NAME	COUNTRY
IKEDA, KATSUYUKI	N/A

ASSIGNEE-INFORMATION:

NAME	COUNTRY
IKEDA KATSUYUKI	N/A

APPL-NO: JP2000114515

APPL-DATE: April 17, 2000

INT-CL_(IPC): B60L007/12; H02J007/00 ; H02J007/02

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a system such as to make one-charge running distance extensible.

SOLUTION: A generator 2 of a charger device 1, set up in a pallet of an electric motor assist bicycle generates power by rotating the rear wheel of the bicycle, an output of the generator is fed to a constant voltage circuit 3. The constant voltage circuit 3 increases the output of the generator 2 raised to a level usable for charging, this output is fed to a charger circuit 4, and a secondary battery 11 is charged. A switch 6 is provided between the charger circuit 4 and the secondary battery 11, by this switch so as to switch connection to the secondary battery between the charger circuit 4 and a discharge circuit 5. The action of the charger circuit 4, a discharge circuit 5, and the switch 6, is controlled by a controller 7. This controller 7 communicates with a controller 12 of an assisting device 10, so as to execute control by sensing the remaining capacity of the secondary battery 11 and on/off of an assisting function.

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CLIPPEDIMAGE= JP409058546A
PAT-NO: JP409058546A
DOCUMENT-IDENTIFIER: JP 09058546 A
TITLE: CHARGE DEVICE USING BICYCLE DYNAMO

PUBN-DATE: March 4, 1997

INVENTOR-INFORMATION:

NAME
TAKEDA, TERUMITSU

ASSIGNEE-INFORMATION:

NAME COUNTRY
KK MITSUOKA DENKI SEISAKUSHO N/A

APPL-NO: JP07239226
APPL-DATE: August 23, 1995

INT-CL_(IPC): B62J006/02; H02J007/00

ABSTRACT:

PROBLEM TO BE SOLVED: To sufficiently ensure brightness of illumination of a lamp during running at night and to prevent overcharge of a secondary battery mounted on a charger by providing a dynamo for a bicycle, an illumination device for a bicycle, and a connection means to connect the illumination device or the charger to the dynamo .

SOLUTION: During daytime running wherein there is no need to light a lamp 2 for a bicycle, the A-terminal of a connection means 4 is connected to a B-terminal and by connecting a dynamo 1 to a charger 3 through a connection means 4, the output of the dynamo 1 is all outputted to the charger 3 to effect charge. Meanwhile, during night running wherein there is a need to light a lamp 2, the output of the dynamo 1 is connected to the lamp 2 through the connection means 4 and the output of the dynamo 1 is all fed to the lamp 2 to provide sufficient brightness. When there is no need to light the lamp 2 for a bicycle and there is also no need to feed a power to the charger 3, switching is effected by the connection means 4 in such a manner that the output of the dynamo 1 is fed to within the lamp 2 not the charger 3.

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	Search Text
1	180/\$.cccls. and bicycle and (generator or dynamo) and battery
2	340/\$.cccls. and bicycle and (generator or dynamo) and battery
3	((("6118196") or ("6260649") or ("4606193"))).PN.
4	3 and batter\$
5	"5788007"
6	((("4709917") or ("5788007") or ("5799747") or ("6118196"))).PN.
7	6 and clutch
8	310/67R
9	8 and (generator or dynamo) and batter\$ and charger\$ and magnet\$
10	8 and bicycle and (generator or dynamo) and batter\$
11	((("5788007") or ("5799747") or ("6118196") or ("4709917"))).PN.
12	11 and batter\$ and charger
13	11 and clutch

	Search Text
1	290/\$.ccls. and bicycle and (generator or dynamo)
2	bicycle and (generator or dynamo)
3	((bicycle and (generator or dynamo)) and batter\$
4	290/1d and bicycle and (generator or dynamo)
5	6118196.URPN.
6	("2243318" "2487180" "2901645" "4677328" "5828145").PN.
7	290/1r and bicycle and (generator or dynamo)
8	4606193.URPN.
9	((bicycle and (generator or dynamo)) and batter\$) and charger
10	((bicycle and (generator or dynamo)) and batter\$) and magnet\$